CIVIL AIM CONSULTANTS & ENGINEERS

(Building Geo-Tech & Highway Materials Testing Laboratory)

An ISO 9001-2015 Certified Company

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QC ABSTRACT

Nameof Work: "Drilling of Borewell and Erection of Pumpset,Electrification to Borewell at Nagenahalli,Kenchenahalli Village areas in Kempegowda Ward No.01 of Yelahanka Sub division".

SI. No.	Item	Quantity As Per BOQ	Required No's of testes as per frequency	Actual No's of testes as per frequency	Testes Results
1	Materials	–	1	1	Pass
2	PVC Pipe-50mm	1846.00 Mtr	1	1	Pass
3	M20	166.14 Cum	7	7	Pass
4	WMM	110.76 Cum	-	-	Pass
		Gradation	2	2	Pass
		AIV	1	1	Pass
		Shape Test	1	1	Pass
		Atterberg Limits	2	2	Pass

Cubes

0-5 Cum	1Set
6-15 Cum	2Set
16-30 Cum	3Set
31-50 Cum	4Set

Add 1set for extra 50Cum

A.E.E.

For CIVIL AIM CONSULTANTS AND ENGINEERS

Authorised Signatory

No. 01, Satvika Nilaya, Opp. Widia Poorna Prajna School,
Ramaiah Layout, Nagasandra, Bangalore - 560 073.
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Job No.: CACE/BBMP/SD/W.No.01/2024-25 Date: 15.04.2024

TEST REPORT

CLIENT	:	**Assistant Executive Engineer**, Yelahanka Sub Division, BBMP, Bangalore.
AGENCY	:	**Sri Shadyan(Sadian)(Ganesh Engineering Works)** , Contractor, Bangalore.
NAME OF THE WORK	:	"Drilling of Borewell and Erection of Pumpset,Electrification to Borewell at Nagenahalli,Kenchenahalli Village areas in Kempegowda Ward No.01 of Yelahanka Sub division".
SAMPLE ID	:	Cement (Birla OPC 53 Grade)
DATE OF MANUFACTURE		March-2024
DATE OF TESTING		13.04.2024 to 15.04.2024

The results of the tests conducted on the cement sample are as follows:

Sl.No	Descriptions	Test Method as per IS	Test Result	Requirements as per IS: 269-2015
1	a) Initial Setting Time	IS-4031 (Part -5)	137 Minutes	Not Less than 30 Minutes
	b) Final Setting Time	IS-4031 (Part -5)	341 Minutes	Not More than 600 Minutes
2	Soundness	IS-4031 (Part 3) by the Le-Chatelier method	2 mm	Not more than 10 mm
3	Standard Consistency	IS-4031 (Part -4)	28.50 %	-

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Job No.: CACE/BBMP/SD/W.No.01/2024-25 Date : 15.04.2024

TEST REPORT ON FINE AGGREGATES (SAND)

Client : **Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.**

Agency : **Sri Shadyan(Sadian)(Ganesh Engineering Works) , Contractor, Bangalore.**

Name of Work : "Drilling of Borewell and Erection of Pumpset,Electrification to Borewell at Nagenahalli,Kenchenahalli Village areas in Kempegowda Ward No.01 of Yelahanka Sub division".

Date of Testing : 15.04.2024

IS Code : IS 383:2016

: IS 2386 (Part 1):1963(RA 2011)

Material : Sand Total Wt. of Aggregates in gms **1000**

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec.Limits For Zone-II
10	0	0	0	100	100
4.75	90	9.00	9.00	91.0	90-100
2.36	145	14.50	23.50	76.5	75-100
1.18	167	16.70	40.20	59.8	55-90
600 Micron	159	15.90	56.10	43.9	35-59
300 Micron	241	24.10	80.20	19.8	8-30
150 Micron	160	16.00	96.20	3.8	0-10

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Job No.: CACE/BBMP/SD/W.No.01/2024-25

Date : 15.04.2024

TEST REPORT ON COARSE AGGREGATES

Client : **Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.**

Agency : **Sri Shadyan(Sadian)(Ganesh Engineering Works) , Contractor, Bangalore.**

Name of Work : "Drilling of Borewell and Erection of Pumpset,Electrification to Borewell at Nagenahalli,Kenchenahalli Village areas in Kempegowda Ward No.01 of Yelahanka Sub division".

Date of Testing : 15.04.2024

IS Code : IS 383:2016

: IS 2386 (Part 1):1963(RA 2011)

Material : 20mm Aggregates

Total Wt. of Aggregates in gms= **5000**

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec.Limits
40	0	0	0	100	100
20	163	3.3	3.3	96.7	95-100
10	2503	50.1	53.3	46.7	25-55
4.75	1997	39.9	93.3	6.7	0-10

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Job No.: CACE/BBMP/SD/W.No.01/2024-25 01.04.2024

TEST REPORT ON PVC PIPE

Client : **Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.**

Agency : **Sri Shadyan(Sadian)(Ganesh Engineering Works) , Contractor,**

Name of Work : "Drilling of Borewell and Erection of Pumpset,Electrification to Borewell at Nagenahalli,Kenchenahalli Village areas in Kempegowda W[illegible] ward No. 01 of Yelahanka Sub division."

Sample Supplied by: :AGENCY

BIS Code: IS 4985:2000

Sample Identification: PVC pipe 50mm dia

Date of Testing 01.04.2024

Sl.No	Test	Test Result	Requirements as per IS 4985:2000
1	Nominal Outer Diameter (mm)	50	50 mm
2	Mean Outside Diameter (mm)	50.1	Min 50 mm Max 50.3 mm
3	Outside Diameter at Any Point (mm)	50.1	Min 49.4 mm Max 50.6 mm

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Job No.: CACE/BBMP/SD/W.No.01/2024-25 Date : 30.05.2024

ATTERBERG LIMITS TEST FOR WMM

Client : **Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.**

Agency : **Sri Shadyan(Sadian)(Ganesh Engineering Works) , Contractor, Bangalore.**

Name of Work : "Drilling of Borewell and Erection of Pumpset,Electrification to Borewell at Nagenahalli,Kenchenahalli Village areas in Kempegowda Ward No.01 of Yelahanka Sub division".

IS Code: : IS 2720(Part 5):1985

Date of Testing : 28.05.2024 to 30.05.2024

Material Type : Wet Mix Macadam

Sl. No.	Particulars	Test Results	Requirement as per MORTH 5th edition Cl.406.2.1.2
1	Liquid Limit	22.50	-
2	Plasticity Index, %	Non Plastic	6.0% Maximum.

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Job No.: CACE/BBMP/SD/W.No.01/2024-25 Date : 30.05.2024

ATTERBERG LIMITS TEST FOR WMM

Client : **Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.**

Agency : **Sri Shadyan(Sadian)(Ganesh Engineering Works) , Contractor, Bangalore.**

Name of Work : "Drilling of Borewell and Erection of Pumpset,Electrification to Borewell at Nagenahalli,Kenchenahalli Village areas in Kempegowda Ward No.01 of Yelahanka Sub division".

IS Code: : IS 2720(Part 5):1985

Date of Testing : 28.05.2024 to 30.05.2024

Material Type : Wet Mix Macadam

Sl. No.	Particulars	Test Results	Requirement as per MORTH 5th edition Cl.406.2.1.2
1	Liquid Limit	19.50	-
2	Plasticity Index, %	Non Plastic	6.0% Maximum.

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Job No.: CACE/BBMP/SD/W.No.01/2024-25 Date: 30.05.2024

Aggregate Impact Value

Client	**Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.**
Agency	**Sri Shadyan(Sadian)(Ganesh Engineering Works) , Contractor, Bangalore.**
Name of the Work	"Drilling of Borewell and Erection of Pumpset,Electrification to Borewell at Nagenahalli,Kenchenahalli Village areas in Kempegowda Ward No.01 of Yelahanka Sub division".
IS Code	IS 2386 (Part 4):1963(RA 2011)
Type of Mix	Wet Mix macadam
Date of Testing	30.05.2024

Sl No.	Details	Test No. 1	Test No. 2	Average
1	Total weight of aggregate sample filling the cylindrical measure = W_1 g	385	381	
2	Weight of agregate passing 2.36 mm sieve after the test = W_2 g	86	84.5	
3	Weight of aggregate retained 2.36 mm sieve after the test = W_3 g	299	296.5	
4	Aggregate Impact value = percent fines 100* (W_2/W_1)%	22.34	22.18	**22.26**

Comments:

→ Maximum allowable Aggregate Impact value for Wet mix Macadam is 30%(As per MORTH Specication table 400.12)

Note:

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Job No.: CACE/BBMP/SD/W.No.01/2024-25 Date : 30.05.2024

GRADATION FOR WMM

Client : **Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.**

Agency : **Sri Shadyan(Sadian)(Ganesh Engineering Works) , Contractor, Bangalore.**

Name of Work : "Drilling of Borewell and Erection of Pumpset,Electrification to Borewell at Nagenahalli,Kenchenahalli Village areas in Kempegowda Ward No.01 of Yelahanka Sub division".

IS Code: : IS 2386 (Part 1):1963(RA 2011)

Date of Testing : 30.05.2024

Material Type : Wet Mix Macadam

Oven Dry.Wt, grar 10000

Is Sieve Size in mm	Weight Retained (gm)	Cumulative Weight Retained (gm)	Cumulative % of Retained	Cumulative % of Passing	Requirement as per MORTH 5th edition table no 400.13
53	0	0	0	100	100
45	187	187	1.9	98.1	95-100
22.4	2604	2791	27.9	72.1	60-80
11.2	2302	5093	50.9	49.1	40-60
4.75	1912	7005	70.1	30.0	25-40
2.36	1201	8206	82.1	17.9	15-30
0.600	601	8807	88.1	11.9	8-22
0.075	899	9706	97.1	2.9	0-5

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Job No.: CACE/BBMP/SD/W.No.01/2024-25 Date: 22.06.2024

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : **Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.**

Agency : **Sri Shadyan(Sadian)(Ganesh Engineering Works) , Contractor, Bangalore.**

Name of the work : "Drilling of Borewell and Erection of Pumpset,Electrification to Borewell at Nagenahalli,Kenchenahalli Village areas in Kempegowda Ward No.01 of Yelahanka Sub division".

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{20}

Compressive Strength as on : 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	15.06.2024	22.06.2024	8.105	341.5	15.18
2	15.06.2024	22.06.2024	8.111	348.3	15.48
3	15.06.2024	22.06.2024	8.122	351.9	15.64

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Job No.: CACE/BBMP/SD/W.No.01/2024-25 Date: 13.07.2024

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : **Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.**

Agency : **Sri Shadyan(Sadian)(Ganesh Engineering Works) , Contractor, Bangalore.**

Name of the work : "Drilling of Borewell and Erection of Pumpset,Electrification to Borewell at Nagenahalli,Kenchenahalli Village areas in Kempegowda Ward No.01 of Yelahanka Sub division".

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{20}

Compressive Strength as on : 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	15.06.2024	13.07.2024	8.188	506.2	22.50
2	15.06.2024	13.07.2024	8.197	508.3	22.59
3	15.06.2024	13.07.2024	8.204	510.7	22.70

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Job No.: CACE/BBMP/SD/W.No.01/2024-25 Date: 22.06.2024

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : **Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.**

Agency : **Sri Shadyan(Sadian)(Ganesh Engineering Works) , Contractor, Bangalore.**

Name of the work : "Drilling of Borewell and Erection of Pumpset,Electrification to Borewell at Nagenahalli,Kenchenahalli Village areas in Kempegowda Ward No.01 of Yelahanka Sub division".

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{20}

Compressive Strength as on : 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	15.06.2024	22.06.2024	8.122	344.9	15.33
2	15.06.2024	22.06.2024	8.145	346.3	15.39
3	15.06.2024	22.06.2024	8.157	347.8	15.46

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TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : **Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.**

Agency : **Sri Shadyan(Sadian)(Ganesh Engineering Works) , Contractor, Bangalore.**

Name of the work : "Drilling of Borewell and Erection of Pumpset,Electrification to Borewell at Nagenahalli,Kenchenahalli Village areas in Kempegowda Ward No.01 of Yelahanka Sub division".

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{20}

Compressive Strength as on : 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	15.06.2024	13.07.2024	8.158	501.9	22.31
2	15.06.2024	13.07.2024	8.160	506.7	22.52
3	15.06.2024	13.07.2024	8.166	511.2	22.72

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Job No.: CACE/BBMP/SD/W.No.01/2024-25 Date: 24.06.2024

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : **Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.**

Agency : **Sri Shadyan(Sadian)(Ganesh Engineering Works) , Contractor, Bangalore.**

Name of the work : "Drilling of Borewell and Erection of Pumpset,Electrification to Borewell at Nagenahalli,Kenchenahalli Village areas in Kempegowda Ward No.01 of Yelahanka Sub division".

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{20}

Compressive Strength as on : 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	17.06.2024	24.06.2024	8.143	342.1	15.20
2	17.06.2024	24.06.2024	8.155	344.9	15.33
3	17.06.2024	24.06.2024	8.138	348.5	15.49

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Job No.: CACE/BBMP/SD/W.No.01/2024-25 Date: 15.07.2024

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : **Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.**

Agency : **Sri Shadyan(Sadian)(Ganesh Engineering Works) , Contractor, Bangalore.**

Name of the work : "Drilling of Borewell and Erection of Pumpset,Electrification to Borewell at Nagenahalli,Kenchenahalli Village areas in Kempegowda Ward No.01 of Yelahanka Sub division".

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{20}

Compressive Strength as on : 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	17.06.2024	15.07.2024	8.145	504.2	22.41
2	17.06.2024	15.07.2024	8.157	506.8	22.52
3	17.06.2024	15.07.2024	8.163	511.3	22.72

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For CIVIL AIM CONSUTANTS AND ENGINEERS

Authorised Signatory

No. 01, Satvika Nilaya, Opp. Widia Poorna Prajna School,
Ramaiah Layout, Nagasandra, Bangalore - 560 073.
Ph: 9591618639, GSTIN: 29CNWPD9510K1ZB, Email: civilaimconsultants@gmail.com

CIVIL AIM CONSULTANTS & ENGINEERS

(Building Geo-Tech & Highway Materials Testing Laboratory)

An ISO 9001-2015 Certified Company

NABL Accredited As Per ISO/IEC 17025:2017 Laboratory

Job No.: CACE/BBMP/SD/W.No.01/2024-25

Date: 24.06.2024

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : **Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.**

Agency : **Sri Shadyan(Sadian)(Ganesh Engineering Works) , Contractor, Bangalore.**

Name of the work : "Drilling of Borewell and Erection of Pumpset,Electrification to Borewell at Nagenahalli,Kenchenahalli Village areas in Kempegowda Ward No.01 of Yelahanka Sub division".

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{20}

Compressive Strength as on : 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	17.06.2024	24.06.2024	8.105	335.9	14.93
2	17.06.2024	24.06.2024	8.113	334.8	14.88
3	17.06.2024	24.06.2024	8.121	336.2	14.94

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Job No.: CACE/BBMP/SD/W.No.01/2024-25 Date: 15.07.2024

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : **Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.**

Agency : **Sri Shadyan(Sadian)(Ganesh Engineering Works) , Contractor, Bangalore.**

Name of the work : "Drilling of Borewell and Erection of Pumpset,Electrification to Borewell at Nagenahalli,Kenchenahalli Village areas in Kempegowda Ward No.01 of Yelahanka Sub division".

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{20}

Compressive Strength as on : 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	17.06.2024	15.07.2024	8.190	509.3	22.64
2	17.06.2024	15.07.2024	8.177	510.7	22.70
3	17.06.2024	15.07.2024	8.183	512.5	22.78

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Job No.: CACE/BBMP/SD/W.No.01/2024-25 Date: 26.06.2024

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : **Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.**

Agency : **Sri Shadyan(Sadian)(Ganesh Engineering Works) , Contractor, Bangalore.**

Name of the work : "Drilling of Borewell and Erection of Pumpset,Electrification to Borewell at Nagenahalli,Kenchenahalli Village areas in Kempegowda Ward No.01 of Yelahanka Sub division".

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{20}

Compressive Strength as on : 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	19.06.2024	26.06.2024	8.095	341.2	15.16
2	19.06.2024	26.06.2024	8.099	338.9	15.06
3	19.06.2024	26.06.2024	8.106	342.6	15.23

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Job No.: CACE/BBMP/SD/W.No.01/2024-25 Date: 17.07.2024

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client	**: Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.**
Agency	**: Sri Shadyan(Sadian)(Ganesh Engineering Works) , Contractor, Bangalore.**
Name of the work	: "Drilling of Borewell and Erection of Pumpset,Electrification to Borewell at Nagenahalli,Kenchenahalli Village areas in Kempegowda Ward No.01 of Yelahanka Sub division".
Sample ID	: Cement Concrete
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Cross Sectional Area	: 22500 mm^2
Technical Reference	: IS: 516-1959 (Reaffirmed 2008)
Grade of Concrete	: M_{20}
Compressive Strength as on	: 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	19.06.2024	17.07.2024	8.199	502.1	22.32
2	19.06.2024	17.07.2024	8.179	509.4	22.64
3	19.06.2024	17.07.2024	8.185	507.6	22.56

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Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{20}

Compressive Strength as on : 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	19.06.2024	26.06.2024	8.110	334.9	14.88
2	19.06.2024	26.06.2024	8.120	339.8	15.10
3	19.06.2024	26.06.2024	8.141	342.6	15.23

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Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{20}

Compressive Strength as on : 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	19.06.2024	17.07.2024	8.188	506.2	22.50
2	19.06.2024	17.07.2024	8.197	508.3	22.59
3	19.06.2024	17.07.2024	8.204	510.7	22.70

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Compressive Strength as on : 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	19.06.2024	17.07.2024	8.172	499.7	22.21
2	19.06.2024	17.07.2024	8.177	501.4	22.28
3	19.06.2024	17.07.2024	8.188	503.5	22.38

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